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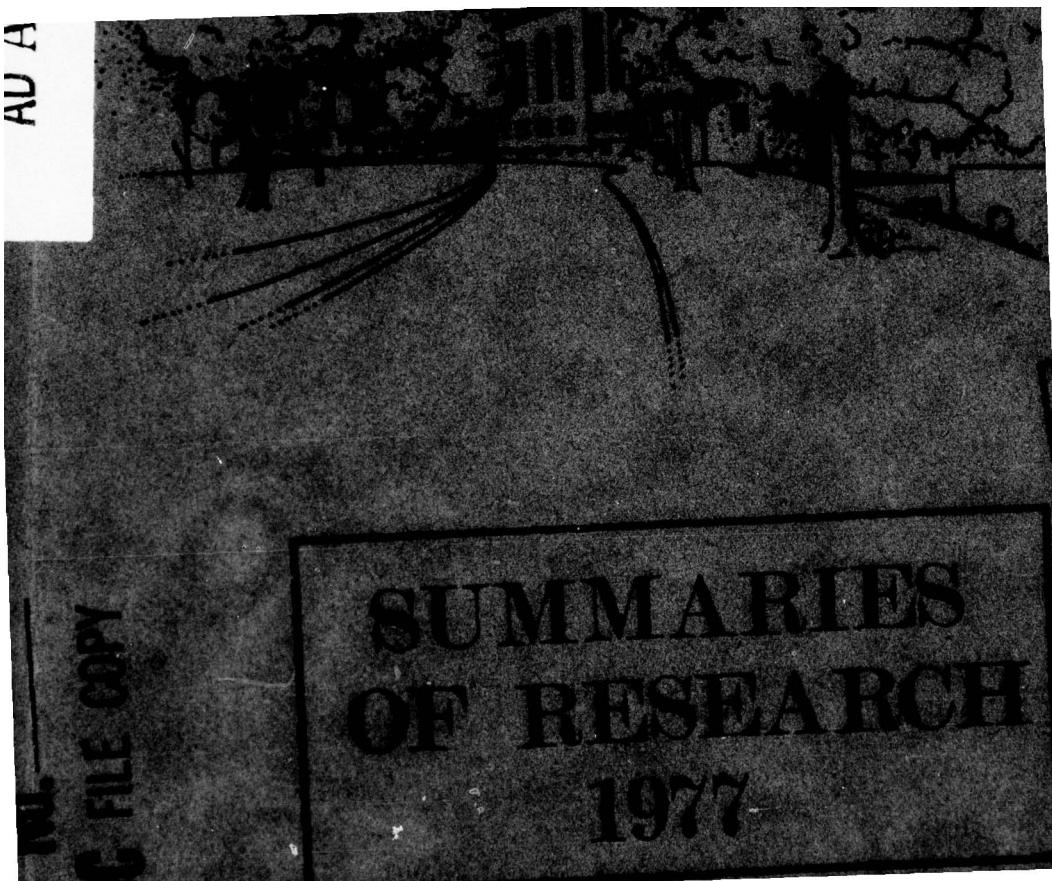
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**SUMMARIES OF RESEARCH**

**1977**

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## FOREWORD

Among the facilities maintained by the U.S. Navy for medical research, the Naval Medical Research Institute (NMRI) is one of the most extensive. It serves as a source of information to the Navy on many phases of biology and medicine as applied to naval service conditions. However, the work done at NMRI is not limited to projects having immediate application to naval operations: it is also firmly rooted in general basic science.

This Summaries of Research is composed of citations to publications emanating from the Naval Medical Research Institute during the calendar year 1977. Although the majority of these publications are available in the open literature, copies may also be obtained from the following sources:

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MF51.524.013.1001 Report No. 6 AD A044 370
2. Ahmed, A., I. Scher, A.H. Smith, and K.W. Sell. "Studies of non-H-2 linked lymphocyte activating determinants. I. Description of the cell type bearing the Mls product." Journal of Immunogenetics 4:201-213, 1977.  
MR041.02.01.0020 Report No. 15 AD A045 199
3. Ahmed, A., I. Scher, and K.W. Sell. "Studies of non-H-2-linked lymphocyte-activating determinants. IV. Ontogeny of the Mls product on murine B cells." Cellular Immunology 30:122-134, 1977.  
MR041.02.01.0020 Report No. 12 AD A049 791
4. Ahmed, A., A.H. Smith, K.W. Sell, M.E. Gershwin, A.D. Steinberg, G.B. Thurman, and A.L. Goldstein. "Thymic-dependent anti-hapten response in congenitally athymic (nude) mice immunized with DNP-thymosin." Immunology 33:757-765, 1977.  
MR041.02.01.0034 Report No. 2 AD A050 725
5. Amatruda, J.M., A.J. Staton, and L.A. Kiesow. "Inhibition of carbon dioxide fixation by lead acetate in rat liver mitochondria." Biochemical Journal 166:75-79, 1977.  
MR041.20.01.0399 Report No. 3
6. Andersen, M.E., R.A. Jones, and L.J. Jenkins, Jr. "Enhancement of 1,1-dichloroethylene toxicity of pretreatment of fasted male rats with 2,3-epoxypropan-1-ol." Drug and Chemical Toxicology 1:63-74, 1977-78.  
MF51.524.025.4003 Report No. 3 AD A050 738
7. Andersen, M.E., R.A. Jones, R.G. Mehl, T.A. Hill, L. Kurlansik, and L.J. Jenkins, Jr. "The inhalation toxicity of sulfolane (tetrahydro-thiophene-1,1-dioxide)." Toxicology and Applied Pharmacology 40: 463-472, 1977.  
MF51.524.023.4006 Report No. 2 AD A051 830  
\* (See No. 123)
8. Bachrach, A.J. and G.F. Egstrom. "Apprehension and panic." In The British Sub-Aqua Club Diving Manual. London, British Sub-Aqua Club, 1977. pp. 40-45.  
MPN10.03.2040 Report No. 23
9. Bachrach, A.J. "Human factors and diving equipment design." In Proceedings of the Third Joint Meeting of the Panel on Diving Physiology and Technology, The U.S.-Japan Conference on Development and Utilization of Natural Resources, Tokyo, Japan, 1975. Kawasaki, Japan, Ministry of Labor, National Institute of Industrial Health, 1977.  
MPN10.03.2040 Report No. 22 AD A040 110

10. Bachrach, A.J., W.W. Banks, D.M. Heaney, and G. Goehring. "Safety considerations in human engineering of hyperbaric equipment." In Proceedings of the Third International System Safety Conference, Washington, D.C. 1977. Washington, D.C., System Safety Society, 1977. pp. 23-27.  
M0099-PN.03.3022 Report No. 2 AD A046 839

11. Bachrach, A.J., M.J. Ackerman, P.B. Bennett, and D. Burgess. "Trimix at depths below 1000 FSW." In Proceedings, International Diving Symposium '76, New Orleans. Belle Chasse, La., Association of Diving Contractors, 1977. pp. 45-47.  
MPN10.03.3015 Report No. 6 AD A046 846

12. Bailey, R.C. and L.D. Homer. "Computations for a best match strategy for kidney transplantation." Transplantation 23:329-336, 1977.

13. Bailey, R.C. "Moments for a modified Makeham law of mortality." NMRI Report. August 1977. 7 pp.  
AD A046 706

14. Bailey, R.C., L.D. Homer, and J.P. Summe. "A proposal for the analysis of kidney graft survival." Transplantation 24:309-315, 1977.  
AD A050 708

15. Banks, W.W., D.M. Heaney, A.J. Bachrach, and G.S. Goehring. "A preliminary human engineering evaluation of hyperbaric control systems." NMRI Report. March 1977. 35 pp.  
M0099-PN.03-3022 Report No. 1 AD A044 044

16. Baum, B.J., S.A. Ellison, and M.J. Levine. "Differential antigenicity of human salivary histidine-rich polypeptides in goats and rabbits." Archives of Oral Biology 22:457-459, 1977.  
MR041.20.02.0432 Report No. 4 AD A050 087

17. Baum, B.J., J.L. Bird, and R.W. Longton. "Histidine-rich-polypeptides in macaque parotid saliva are not nuclear histones." Archives of Oral Biology 22:455-456, 1977.  
MR041.20.02.0432 Report No. 5 AD A050 729

18. Baum, B.J., J.L. Bird, D.B. Millar, and R.W. Longton. "Isolation and partial characterization of an histidine-rich polypeptide from parotid saliva of the monkey, *Macaca nemestrina*." Comparative Biochemistry and Physiology 56A:115-120, 1977.  
MR041.20.02.0432 Report No. 1 AD A035 541

19. Baum, B.J., J.L. Bird, and R.W. Longton. "Polyacrylamide gel electrophoresis of human salivary histidine-rich-polypeptides." Journal of Dental Research 56:1115-1118, 1977.  
MR041.20.02.0432

20. Beaudoin, R.L., C.P.A. Strome, F. Mitchell and T.A. Tubergen. "Plasmodium berghei: immunization of mice against the ANKA strain using the unaltered sporozoite as an antigen." Experimental Parasitology 42:1-5, 1977.  
MF51.524.009.0032 Report No. 1

21. Berenberg, R.A., D.S. Forman, D.K. Wood, A. DeSilva, and J. DeMaree. "Recovery of peripheral nerve function after axotomy: effect of triiodothyronine," Experimental Neurology 57:349-363, 1977. MF51.524.013.1017 Report No. 1 AD A050 723

22. Bird, J.L., B.J. Baum, K.K. Makinen, W.H. Bowen and R.W. Longton. "Xylitol associated changes in amylase and protein content of monkey parotid saliva." Journal of Nutrition 107:1763-1767, 1977. MR041.20.02.0432 Report No. 6 AD A050 724

23. Brady, J.I., Jr., D.R. Knight, and T.E. Berghage. "Relationship between measures of body fat and gross motor proficiency." Journal of Applied Psychology 62:224-229, 1977. MPN10.03.2040 Report No. 21 AD A040 574

24. Bright, R.W., G.E. Friedlaender, and K.W. Sell. "Tissue banking: the United States Navy Tissue Bank." Military Medicine 142:503-510, 1977. MR041.02.01.0031 Report No. 5 AD A044 371

25. Brodine, C.E. and D.E. Uddin. "Medical aspects of sickle hemoglobin in military personnel." Journal of the National Medical Association 69:29-32, 1977. MPN03.05.3101 Report No. 1

26. Chen, P. and D.A. Dean. "Immune response of guinea pigs to *Schistosoma mansoni*. II. *In vitro* blastogenesis and macrophage migration inhibition factor production in response to cercarial, adult worm and egg antigens." American Journal of Tropical Medicine and Hygiene 26:963-969, 1977. MR041.05.01.0023 Report No. 8 AD A050 737

27. Collison, H.A., F.L. Rodkey, J.D. O'Neal. "Effect of dichloromethane on hemoglobin function." Biochemical Pharmacology 26:557-558, 1977. MR041.01.01.0103 Report No. 30 AD A038 710

28. Colwell, R.R., J. Kaper and S.W. Joseph. "Vibrio cholerae, Vibrio parahaemolyticus, and other vibrios: occurrence and distribution in Chesapeake Bay." Science 198:394-396, 1977. ZF51.524.009.0057 Report No. 2

29. Cotton, W.R. and R.L. Siegel. "Pulp response to citric acid cleanser." U.S. Navy Medicine 68:27-29, July, 1977. M0095-PN.04-3012

30. Dasch, G.A. and E. Weiss. "Characterization of the Madrid E strain of *Rickettsia prowazekii* purified by remografin density gradient centrifugation." Infection and Immunity 15:280-286, 1977. MF51.524.009.0041 Report No. 2 AD A036 943

31. Daaler, A.R. "Heat stress, work function and physiological heat exposure limits in man." In Thermal Analysis-Human Comfort-Indoor Environments. Proceedings of a symposium. Washington, D.C., National Bureau of Standards, 1977. pp. 65-92. MF51.524.023.1005 Report No. 1 AD A050 008

32. Dean, D.A. "Decreased binding of cytotoxic antibody by developing *Schistosoma mansoni*. Evidence for a surface change independent of host antigen adsorption and membrane turnover." Journal of Parasitology 63:418-426, 1977.  
MR041.05.01.0023 Report No. 7 AD A047 335

33. Dean, D.A. and D.M. Strong. "Improved assay for monocyte chemotaxis using frozen stored responder cells." Journal of Immunological Methods 14:65-72, 1977.  
MR000.01.01.1073 Report No. 1

34. Dickler, H.B., A. Ahmed, and D.H. Sachs. "B-lymphocyte Fc receptor-associated non-H-2 antigens are determined by a single polymorphic locus which is linked to the *Mls* locus." Journal of Experimental Medicine 146:1678-1692, 1977.  
MR041.02.01.0034

35. Dorsey, C.H. and M.A. Stirewalt. "Schistosoma mansoni: localization of calcium-detecting reagents in electron-lucent areas of specific preacetabular gland granules." Zeitschrift für Parasitenkunde 54: 165-173, 1977.  
MR041.05.01.0037

36. Evans, D.E., E. Hardenbergh, L.W. Raymond, and M.E. Bradley. "Effect of helium breathing on cardiac arrhythmias induced by coronary occlusion and digitalis in the cat." Undersea Biomedical Research 4:381-389, 1977.  
MF51.524.014.9026 Report No. 1 AD A047 336

37. Fletcher, J.R. and P.W. Ramwell. "Altered lung metabolism of prostaglandins during hemorrhagic and endotoxin shock." Surgical Forum XXVIII: 184-186, 1977.  
M0098-PN.01-0041 Report No. 3 AD A050 086

38. Fletcher, J.R. and P.W. Ramwell. "Modification, by aspirin and indomethacin, of the haemodynamic and prostaglandin releasing effects of *E. coli* endotoxin in the dog." British Journal of Pharmacology 61: 175-181, 1977.  
MPN06.01.0041 Report No. 2 AD A050 740

39. Frattali, V., M. Quesada and R. Robertson. "Interdependence of decompression sickness and plasma enzymes on dive profile and vitamin B-6 status." Aviation, Space and Environmental Medicine 48:29-32, 1977.  
MPN10.02.4080 Report No. 8 AD A036 944

40. Freund, J.G., A. Ahmed, M.E. Dorf, K.W. Sell, and R.E. Humphreys. "Inhibition of the mixed lymphocyte culture response with anti-Ly-4.1 serum." Journal of Immunology 118:1143-1149, 1977.  
MF51.524.013.1004 Report No. 7

41. Friedlaender, G.E., K.W. Sell, and J.C. Bond. "The impact of tissue banking on the treatment of musculoskeletal system trauma." Military Medicine 142:858-861, 1977.  
MPN06.01.0003 Report No. 3 AD A050 719

42. Friedlaender, G.E., K.W. Sell, and J.C. Bond. "Role of preserved allografts in neurosurgical procedures." Military Medicine 142:685-686, 1977.  
MPN06.01.0003 Report No. 2 AD A050 720

43. Friedlaender, G.E. "U.S. Navy Tissue Bank." Journal of the American Podiatry Association 67:38-41, 1977.  
MPN06.01.0003 Report No. 1

44. Friess, S.L. "Contributions of statistics to the analysis of environmental health problems caused by pollutants." American Statistician 31:2-7, 1977.  
MR041.06.01.0006

45. Garcia-Rinaldi, R., R.D. Rossen, K.W. Sell, L. Kormeier, J. Woody, and W.T. Butler. "In vitro binding studies of anti-human lymphocyte globulin: Analysis of samples tested for immunosuppression in the primate skin allograft system." Journal of Immunological Methods 16:313-329, 1977.  
MR041.02.01.0039 Report No. 7 AD A046 748

46. Gartner, S.L. "Lead potentiation of endotoxin lethality in rats: lack of effect of kininase inhibition." Experientia 33:1465-1467, 1977.  
MR041.20.01.0435 Report No. 1 AD A050 726

47. Gillmore, J.D. and R.I. Walker. "Evidence of bacteremia and endotoxemia in mice undergoing hyperbaric stress." Undersea Biomedical Research 4: 67-73, 1977.  
MPN10.01.6020 Report No. 1 AD A040 573

48. Halle, S., G.A. Dasch, and E. Weiss. "Sensitive enzyme-linked immunosorbent assay for detection of antibodies against typhus rickettsiae, *Rickettsia prowazekii* and *Rickettsia typhi*." Journal of Clinical Microbiology 6:101-110, 1977.  
MF51.524.009.0078 Report No. 1

49. Halle, S. and E. Zbovitz. "A spontaneous temperature sensitive mutant of Japanese encephalitis virus: preliminary characterization." Archives of Virology 54:165-176, 1977.  
MF51.524.009.0067 Report No. 1

50. Hallenbeck, J.M. and M.E. Bradley. "Experimental model for systematic study of impaired microvascular reperfusion." Stroke 8:238-243, 1977.  
MPN10.01.1150 Report No. 12 AD A038 860

51. Hallenbeck, J.M. "Prevention of postischemic impairment of microvascular perfusion." Neurology 27:3-10, 1977.  
MPN10.01.1150 Report No. 11 AD A045 697

52. Hartzman, R.J., A. Ahmed, D.M. Strong, F. Pappas, P. Romano, and K.W. Sell. "Generation of highly discriminant PLT cells using a hybrid HTC-PLT system." Transplantation Proceedings IX:1763-1766, 1977.  
MR041.02.01.0036 Report No. 1 AD A051 942

53. Hartzman, R.J., I. Scher, A. Ahmed, and K.W. Sell. "The primed LD typing test: analysis of individuals immunized to GLT." Transplantation Proceedings IX:195-198, 1977.  
MR000.01.01.1134 Report No. 1 AD A045 634

54. Hoffman, S., H.D. Tow, and J.S. Cole, III. "Antiplaque potential of topical stannous fluoride." Journal of Dental Research 56:709-715, 1977.  
MR041.20.02.0387

55. Homer, L.D. and R.C. Bailey. "An analogy permitting maximum likelihood estimation by a simple modification of general least squares algorithms." NMRI Report, September 1977. 8 pp.  
M0098-PN.01-0004 AD A046 957

56. Homer, L.D. and A. Small. "Physiological parameters of indicator dilution curves." American Journal of Physiology 233:H350-H355, 1977.  
MF51.524.016.1014 Report No. 1 AD A045 967

57. Homer, L.D. and A. Small. "A unified theory for estimation of cardiac output, volumes of distribution and renal clearances from indicator dilution curves." Journal of Theoretical Biology 64:535-550, 1977.  
MPN06.01.0037 Report No. 1 AD A040 506

58. Hong, S.K., J.R. Claybaugh, V. Frattali, R. Johnson, F. Kurata, M. Matsuda, A.A. McDonough, C.V. Paganelli, R.M. Smith, and P. Webb. "Hana Kai II: a 17-day dry saturation dive at 18.6 ATA. III. Body fluid balance." Undersea Biomedical Research 4:247-265, 1977.  
MPN10.02.4080 Report No. 10 AD A050 730

59. Izui, S., N.M. Zaldivar, I. Scher, and P.H. Lambert. "Mechanism for induction of anti-DNA antibodies by bacterial lipopolysaccharides in mice. I. Anti-DNA induction by LPS without significant release of DNA in ciruclating blood." Journal of Immunology 119:2151-2156, 1977.  
MR041.02.01.0037

60. Jenkins, L.J., Jr., R.A. Jones, and M.E. Andersen. "The use of mean survival time analysis to determine comparative toxicity of fire atmospheres." Journal of Combustion Toxicology 4:87-96, 1977.  
MF51.524.023.4002 Report No. 1 AD A040 507

61. Kiesow, L.A. "Consumptive coagulopathy as biochemical mechanism in oxygen toxicity and its enhancement by lead (II) ions." Journal of Clinical Chemistry and Clinical Biochemistry 15:449-453, 1977.  
MR041.01.01.0019 Report No. 1

62. Kiesow, L.A., S. Shapiro, B.F. Lindsley, and J.W. Bless. "Oxygen-induced consumptive coagulopathy and its enhancement by lead acetate." Thrombosis and Haemostasis 37:170-176, 1977.  
MR041.06.01.0019 Report No. 9

63. Kiesow, L.A., B.F. Lindsley, and J.W. Bless. "Phosphoribulokinase from *Nitrobacter winogradskyi*: activation by reduced nicotinamide adenine dinucleotide and inhibition by pyridoxal phosphate." Journal of Bacteriology 130:20-25, 1977.  
MR041.06.01.0019 Report No. 8

64. Knudsen, R.C., A. Ahmed, R.W. Longton, M. van Cleave, K.W..Sell, and S.C. Grebe. "Specific activation of murine B cells by low molecular weight polyamino-polycarboxylic acids (ampholytes)." Cellular Immunology 34:340-353, 1977.  
MR041.02.01.0025 Report No. 3 AD A050 722

65. Leapman, S.B., D.M. Strong, S. Alpert, N.J. Feduska, and K.W. Sell. "Lymphocyte monitoring as a predictor of renal allograft rejection." Annals of Surgery 186:568-572, 1977.  
MR041.02.01.0039 Report No. 9 AD A050 721

66. Leapman, S.B., S.L. Kountz, and K.W. Sell. "Organ preservation and tissue banking." Transplantation Proceedings IX:1255-1256, 1977. MF51.524.013.1005 Report No. 8 AD A050 741

67. McMaster, P.R.B., J.D. Owens, and W.E. Vannier. "The preparation and characterization of a thymic independent antigen:  $\epsilon$ -dinitrophenyl-L-lysine-Ficoll." Immunochemistry 14:189-196, 1977. MR000.01.01.1052 Report No. 1 AD A043 416

68. Meister, L.W., M.H. Goldman, S.B. Leapman, and P. Glas-Greenwalt. "Method of obtaining rat and primate glomeruli." Tissue Culture Association Manual 3:575-576, 1977. MR000.01.01.1164 Report No. 1 AD A046 430

69. Mell, L.D. and A.B. Gustafson. "Urinary free norepinephrine and dopamine determined by reverse-phase high-pressure liquid chromatography." Clinical Chemistry 23:473-476, 1977. MF51.524.023.1007 Report No. 3 AD A045 693

70. Merrell, B.R. and S.W. Joseph. "Ultrastructural characteristics of an organism intimately associated with necrotic bone in gangrenous stomatitis (noma)." In Proceedings Thirty-Fifth Annual Meeting Electron Microscopy Society of America, Boston, Mass., 1977. Baton Rouge, La., Claitor's Publishing Division, 1977. pp. 356-357. MF51.524.009.0057 Report No. 1 AD A046 750

71. Minard, P., K.D. Murrell, and M.A. Stirewalt. "Proteolytic, antigenic and immunogenic properties of *Schistosoma mansoni* cercarial secretion material." American Journal of Tropical Medicine and Hygiene 26: 491-499, 1977. MF51.524.009.0075 Report No. 8 AD A047 334

72. Murrell, K.D., W.E. Vannier, P. Minard, and V.D. Schinski. "*Schistosoma mansoni*: extraction and partial characterization of membrane antigens using an assay based on competitive inhibition of human antibodies binding to schistosomules." Experimental Parasitology 41:446-463, 1977. MF51.524.009.0075 Report No. 7

73. Naulty, J.S., J.G. Reves, R.E. Tobey, and W.W. Schultz. "Hepatitis and operating-room personnel: an approach to diagnosis and management." Anesthesia and Analgesia 56:366-372, 1977. M4306.02.5012 Report No. 5 AD A043 426

74. Ochiai, T., A. Ahmed, S.C. Grebe, and K.W. Sell. "Mechanism of polyclonal T-lymphocyte activation defined by use of specific heterologous antiserum against murine T cells." Transplantation Proceedings IX:1049-1054, 1977. MPN06.01.0043 Report No. 1 AD A050 634

75. Pavlovskis, O.R., M. Pollack, L.T. Callahan, III, and B.H. Iglesias. "Passive protection by antitoxin in experimental *Pseudomonas aeruginosa* burn infections." Infection and Immunity 18:596-602, 1977. M0098-PN.01-0009 Report No. 2 AD A050 731

76. Plaut, A.G., J.V. Gilbert, and R. Wistar, Jr. "Loss of antibody activity in human immunoglobulin A exposed to extracellular immunoglobulin A proteases of *Neisseria gonorrhoeae* and *Streptococcus sanguis*." Infection and Immunity 17:130-135, 1977.  
MR041.02.01.0032 Report No. 1 AD A050 732

77. Pollack, M., N.S. Taylor, and L.T. Callahan, III. "Exotoxin production by clinical isolates of *Pseudomonas aeruginosa*." Infection and Immunity 15:776-780, 1977.  
MR041.20.01.0423 Report No. 2 AD A045 637

78. Pollack, M. and N.S. Taylor. "Serum antibody to *Pseudomonas aeruginosa* exotoxin measured by a passive hemagglutination assay." Journal of Clinical Microbiology 6:58-61, 1977.  
MR041.20.01.0423 Report No. 3

79. Rodkey, F.L. and H.A. Collison. "Biological oxidation of [<sup>14</sup>C] methylene chloride to carbon monoxide and carbon dioxide by the rat." Toxicology and Applied Pharmacology 40:33-38, 1977.  
MR000.01.01.1090 Report No. 1

80. Rodkey, F.L. and P.D. Berk. "Comparison of plasma bilirubin turnover in man with carbon monoxide production estimated simultaneously by blood and gas movements." In Chemistry and Physiology of Bile Pigments. Fogarty International Center Proceedings No. 35. Bethesda, National Institutes of Health, 1977. pp. 124-133.  
MR041.01.01.0103 Report No. 31 AD A044 332

81. Rodkey, F.L. and H.A. Collison. "Determination of cyanide and nitro-prusside in blood and plasma." Clinical Chemistry 23:1969-1975, 1977.  
MR041.01.04.0103 Report No. 32 AD A050 085

82. Rodkey, F.L. and H.A. Collison. "Effect of dihalogenated methanes on the *in vivo* production of carbon monoxide and methane by rats." Toxicology and Applied Pharmacology 40:39-47, 1977.  
MR000.01.01.1090 Report No. 2

83. Russell, R.J. and T.D. David. "A guide to the type and amount of tranquilizers, anesthetics, analgesics and euthanasia agents for laboratory animals." NMRI Report, May 1977. 31 pp.  
AD A043 058

84. Ryan, J.J., A. Ahmed, and K.W. Sell. "Genetic requirements for mixed lymphocyte culture response of peripheral blood lymphocytes of mice depleted of alloantigen-reactive lymphoid cells." Transplantation Proceedings IX:869-874, 1977.  
MR000.01.01.1127 Report No. 1 AD A045 639

85. Sass, D.J. "Time, data, and event code generator to identify physiologic events simultaneously recorded on magnetic tape and oscillographic paper." IEEE Transactions on Biomedical Engineering BME-24: 425-429, 1977.  
MPN10.02.3118 Report No. 2

86. Scher, I., N.M. Zaldivar, and D.E. Mosier. "B-lymphocyte subpopulations and endotoxin response in CBA/N mice." *In Microbiology - 1977.* Washington, American Society for Microbiology, 1977. pp. 310-313. MR041.02.01.0020 Report No. 11 AD A043 424

87. Scher, I., A. Ahmed, S.O. Sharrow, and W.E. Paul. "Maturation of murine B lymphocytes." *In Development of Host Defenses.* New York, Raven Press, 1977. pp. 55-74. MR041.02.01.0020 Report No. 14 AD A044 375

88. Scher, I., A. Ahmed, and S.O. Sharrow. "Murine B lymphocyte heterogeneity: distribution of complement receptor-bearing and minor lymphocyte-stimulating B lymphocytes among cells with different densities of total surface Ig and IgM." *Journal of Immunology* 119:1938-1942, 1977. MR000.01.01.1151

89. Scher, I., A. Ahmed, S. Sharrow, and K.W. Sell. "Murine minor-lymphocyte-stimulating locus defines B-cell subclass whose expression is dependent on genes on X chromosome." *Transplantation Proceedings* IX:813-817, 1977. MR041.02.01.0020 Report No. 10 AD A045 635

90. Schneider, N.R., S.L. Bradley, and M.E. Andersen. "Toxicology of cyclotrimethylenetrinitramine: distribution and metabolism in the rat and the miniature swine." *Toxicology and Applied Pharmacology* 39:531-541, 1977. MF57.572.001.4004 Report No. 1 AD A050 734

91. Schultz, W.W. and F.B. Bang. "Virus-induced lysosomal enzyme dissolution of nasal turbinate cartilage." *American Journal of Pathology* 87:667-684, 1977. M0095-PN.12-5043 Report No. 1

92. Sell, K.W., G.E. Friedlaender, and D.M. Strong. "Immunogenicity and freeze-drying." *In Colloques de l'Institut National de la Sante et de la Recherche Medicale, v.62: Cryoimmunologie/Cryoimmunology.* Paris, INSERM, 1977. pp. 187-198. M0098-PN.01-0003 Report No. 8 AD A036 946

93. Sell, K.W., A. Ahmed, S.B. Leapman, and D.M. Strong. "Serologic identification of the common and idiotype-specific receptors on responder T cells for lymphocyte-activating determinants in mixed lymphocyte cultures." *Transplantation Proceedings* IX:1737-1743, 1977. MR041.02.01.0039 Report No. 8 AD A050 728

94. Sharkis, S.J., D.M. Strong, A. Ahmed, and K.W. Sell. "Tritiated thymidine incorporation and cell-mediated lympholysis as correlates of acute graft-versus-host reaction." *Experimental Hematology* 5:443-455, 1977. MR041.02.01.0023 Report No. 2 AD A051 941

95. Sippel, J.E. and A. Quan. "Homogeneity of protein serotype antigens in *Neisseria meningitidis* group A." Infection and Immunity 16:623-627, 1977.  
M0095-PN.12-5019 Report No. 1

96. Small, A., N.J. Feduska, and R.S. Filo. "Function of autotransplanted kidneys after hypothermic perfusion with dimethylsulfoxide." Cryobiology 14:23-36, 1977.  
MF51.524.013.1005 Report No. 7 AD A049 673

97. Soni, S.K. and L.A. Kiesow. "pH-dependent Soret difference spectra of the deoxy and carbonmonoxy forms of human hemoglobin and its derivatives." Biochemistry 16:1165-1170, 1977.  
MR041.20.01.0433 Report No. 3 AD A045 640

98. Spaur, W.H., L.W. Raymond, M.M. Knott, J.C. Crothers, W.R. Braithwaite, E.D. Thalman, and D.F. Uddin. "Dyspnea in divers at 49.5 ATA: mechanical, not chemical in origin." Undersea Biomedical Research 4:183-198, 1977.  
M4306.02.6010 Report No. 10 AD A044 372

99. Strong, D.M. and K.W. Sell. "Frozen cell banking in immunology." In Colloques de l'Institut National de la Sante et de la Recherche Medicale, v. 62: Cryoimmunologie/Cryoimmunology. Paris, INSERM, 1977. pp. 101-105.  
MPN06.01.0045 Report No. 3 AD A038 744

100. Strong, D.M., B.B. Knudsen, D.L. Mann, and K.W. Sell. "Frozen-thawed mononuclear cells as a source of B lymphocytes for antibody screening." Tissue Antigens 10:108-113, 1977.  
MF51.524.013.1025 Report No. 1 AD A050 894

101. Strong, D.M. and K.W. Sell. "Functional properties of cryopreserved lymphocytes." In Colloques de l'Institut National de la Sante et de la Recherche Medicale, v. 62: Cryoimmunologie/Cryoimmunology. Paris, INSERM, 1977. pp. 81-92.  
MPN06.01.0007 Report No. 5 AD A038 715

102. Strong, D.M., G.E. Friedlaender, A. Ahmed, and K.W. Sell. "Immunogenicity of freeze-dried and deep-frozen bone allografts." In Colloques de l'Institut National de la Sante et de la Recherche Medicale, v. 62: Cryoimmunologie/Cryoimmunology. Paris, INSERM, 1977. pp. 209-215.  
MR041.02.01.0031 Report No. 4 AD A038 716

103. Tsai, C-M., D.A. Zopf, R.K. Yu, R. Wistar, Jr., and V. Ginsburg. "A Waldenstrom macroglobulin that is both a cold agglutinin and a cryoglobulin because it binds N-acetylneuraminosyl residues." Proceedings of the National Academy of Sciences 74:4591-4594, 1977.  
MR041.02.01.0038 Report No. 2 AD A050 727

104. Van Rollins, M., J. Velazquez-Ortiz, J.V. Moran, and V. Frattali. "Effects of oxygen induced convulsions on the uptake of acetate into rat brain lipids." Journal of Neurochemistry 28:1281-1287, 1977.  
MF51.524.014.9011 Report No. 2 AD A041 480

105. Voelker, F.A., M.R. Anver, A.E. McKee, H.W. Casey, and G.R. Brenniman. "Amebiasis in goldfish." Veterinary Pathology 14:247-255, 1977. MR041.20.01.0430 Report No. 1 AD A043 422

106. Walsh, J.M. and L.S. Burch. "Reduction of the behavioral effects of  $\Delta^9$ -tetrahydrocannabinol by hyperbaric pressure." Pharmacology Biochemistry & Behavior 7:111-116, 1977. MPN10.03.3021 Report No. 3 AD A046 749

107. Webb, P., S.J. Troutman, Jr., V. Frattali, R.H. Dressendorfer, J. Dwyer, T.O. Moore, J.F. Morlock, R.M. Smith, Y. Ohta, and S.K. Hong. "Hana Kai II: a 17-day saturation dive at 18.6 ATA. II. Energy balance." Undersea Biomedical Research 4:221-246, 1977. MPN10.02.4080 Report No. 9 AD A045 971

108. Wiktor-Jedrzejczak, W., A. Ahmed, P. Czerski, W.M. Leach, and K.W. Sell. "Immune response of mice to 2450-MHz microwave radiation: Overview of immunology and empirical studies of lymphoid splenic cells." Radio Science 12(6S):209-219, 1977. MF51.524.015.0040 Report No. 3 AD A050 786

109. Wiktor-Jedrzejczak, W., A. Ahmed, P. Czerski, W.M. Leach, and K.W. Sell. "Increase in the frequency of Fc receptor (FcR) bearing cells in the mouse spleen following a single exposure of mice to 2450 MHz microwaves." Biomedicine 27:250-252, 1977. MF51.524.015.0040 Report No. 2 AD A051 859

110. Wiktor-Jedrzejczak, W., A. Ahmed, K.W. Sell, P. Czerski, and W.M. Leach. "Microwaves induce an increase in the frequency of complement receptor-bearing lymphoid spleen cells in mice." Journal of Immunology 118:1499-1502, 1977. MF51.524.015.0040 Report No. 1 AD A045 636

111. Wiktor-Jedrzejczak, W., S. Sharkis, A. Ahmed, K.W. Sell, and G.W. Santos. "Theta-sensitive cell and erythropoiesis: identification of a defect in W/W<sup>v</sup> anemic mice." Science 196:313-315, 1977. MR041.20.01.0425 Report No. 1

112. Wild, J.R. "Induction of staphylococcal  $\beta$ -lactamase in response to low concentrations of methicillin under simulated diving environments." Canadian Journal of Microbiology 23:116-121, 1977. MPN10.02.8001 Report No. 3 AD A037 264

113. Woodman, D.R., E. Weiss, G.A. Dasch, and F.M. Bozeman. "Biological properties of *Rickettsia prowazekii* strains isolated from flying squirrels." Infection and Immunity 16:853-860, 1977. MR041.05.01.0007 Report No. 34

114. Woodman, D.R. and J.C. Williams. "Effects of 2-deoxy-D-glucose and 3-deazauridine individually and in combination on the replication of Japanese B encephalitis virus." Antimicrobial Agents and Chemotherapy 11:475-481, 1977. MPN03.12.5031 Report No. 1 AD A045 638

115. Woodman, D.R., R. Grays, and E. Weiss. "Improved chicken embryo cell culture plaque assay for scrub typhus rickettsiae." Journal of Clinical Microbiology 6:639-641, 1977.  
MR041.05.01.0007 Report No. 35 AD A050 733

116. Woody, J.N., M. Feldmann, P.C.L. Beverley, and I.F.C. McKenzie. "Expression of alloantigens Ly-5 and Ly-6 on cytotoxic effector cells." Journal of Immunology 118, 1739-1743, 1977.  
MF51.524.013.1004 Report No. 8.

117. Woody, J.N. "Ly-6 is a T-cell differentiation antigen." Nature 269: 61-63, 1977.  
MR041.02.01.0012 Report No. 2

118. Yeandle, S. "Neuromuscular transmission in the frog at 31 ATA helium pressure." Undersea Biomedical Research 4:159-168, 1977.  
MF51.524.014.6022 Report No. 1 AD A043 423

119. Young, J.M., J.M. Hallenbeck, and R.M. Fine. "The effect of prostaglandin E<sub>1</sub> on the course of decompression sickness in dogs." NMRI Report. September 1977. 14 pp.  
MR000.01.01.1104 Report No. 1 AD A050 007

120. Yukna, R.A., H.D. Tow, P.B. Carroll, A.R. Vernino, and R.W. Bright. "Comparative clinical evaluation of freeze-dried skin allografts and autogenous gingival grafts in humans." Journal of Clinical Periodontology 4:191-199, 1977.  
MF51.524.012.0013 Report No. 10 AD A050 088

121. Yukna, R.A. H.D. Tow, P.B. Carroll, A.R. Vernino, and R.W. Bright. "Evaluation of the use of freeze-dried skin allografts in the treatment of human mucogingival problems." Journal of Periodontology 48(4):187-193, 1977.  
MF51.524.012.0013 Report No. 8 AD A041 481

122. Yukna, R.A., D.W. Turner, and L.J. Robinson. "Variable antigenicity of lyophilized allogeneic and lyophilized xenogeneic skin in guinea pigs." Journal of Periodontal Research 12:197-203, 1977.  
MF51.524.012.0013 Report No. 9 AD A043 425

123. Anderson, M.E. and L.J. Jenkins, Jr. "Oral toxicity of 1,1-dichloroethylene in the rat: effects of sex, age, and fasting." Environmental Health Perspectives 21:157-163, 1977.  
MF51.524.025.4003

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